In the claims:

- 1-57. (cancelled).
- 58. (currently amended) A method for determining identifying a eempeund which a decreases in the activity of osteoprotegerin binding protein (OPGbp) comprising: adding a the compound to an in vitro assay under conditions where the compound binds OPGbp of Figure 4 (SEQ ID NO: 4) or a soluble form thereof; and measuring the activity of OPGbp, wherein a decrease in osteoclast formation in the presence of the compound indicates that the compound decreases the activity of OPGbp.
- 59. (previously presented) The method of Claim 58 wherein the compound binds to OPGbp of Figure 4 (SEQ ID NO:4).
 - 60. (cancelled).
- 61. (previously presented) The method of Claim 58 wherein the compound binds to an extracellular domain of human OPGbp comprising residues 69-317 as shown in SEQ ID NO:4 or a fragment thereof.
- 62. (previously presented) The method of Claim 58 wherein the activity of OPGbp being measured is osteoclast formation.
- 63. (previously presented) The method of Claim 58 wherein osteoclast formation is measured in a cell culture assay.
 - 64. (cancelled)
- 65. (previously presented) The method of Claim 58 wherein a decrease in osteoclast formation results in an increase in bone density.

- 66. (previously presented) The method of Claim 58 wherein the compound increases bone density.
- 67. (previously presented) The method of Claim 58 wherein the compound decreases bone resorption.
- 68. (currently amended) The method of Claim 58 wherein the compound is an antibody or binding fragment thereof.
 - 69 70. (cancelled).
- 71. (new) The method of Claim 68 wherein the antibody or binding fragment thereof is a recombinant antibody or binding fragment thereof.
- 72. (new) The method of Claim 68 wherein the antibody or binding fragment thereof is a chimeric antibody or a CDR-grafted antibody or binding fragment thereof.
- 73. (new) The method of Claim 68 wherein the antibody or binding fragment thereof is a human antibody or binding fragment thereof